WHAT IS CLAIMED IS:

1		1.	A method for processing a transport stream, the method				
2	comprising:						
3		(a) p	arsing the transport stream to derive multiple elementary substreams,				
4	each elementa	each elementary substream including a received media access control (MAC) address;					
5	and		•				
6		(b) c	omparing in hardware the received MAC address of a particular				
7	elementary substream against a plurality of stored MAC addresses.						
1		2.	The method according to claim 1, the method further comprising:				
2		(a) p	arsing the transport stream to derive multiple data streams including				
3	associated program identifiers, each such data stream being associated with a plurality of						
4	the multiple elementary substreams;						
5		(b) u	sing the associated program identifiers and MAC addresses to				
6	determine corresponding transfer locations in a host memory; and						
7		(c) p	erforming direct memory access transfers of the multiple data streams				
8	and multiple elementary substreams to the corresponding transfer locations in the host						
9	memory.						
1	-	3.	The method according to claim 2, the method further comprising				
2	transferring the multiple data streams and multiple elementary substreams to an end user						
3	system.						
1		4.	The method according to claim 3 wherein the end user system				
2	comprises an audio-visual system and the step of transferring the multiple data streams						
3	and multiple elementary substreams is performed through an audio-visual interface.						
1		5.	The method according to claim 3 wherein the end user system				
2	comprises a networked computer system and the step of transferring the multiple data						
3	streams and multiple elementary substreams is performed through a network interface.						
1		6.	The method according to claim 5 wherein the end user system				
2	further comprises a world wide web browser.						

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1	7	7.	The method according to claim 2, the method further comprising			
2	the step of filtering out unwanted elementary substreams associated with a particular data					
3	stream.					
1 2	8 addresses is con-		The method according to claim 1 wherein each of the stored MAC ted with an index and a disable bit.			
1	9	€.	The method according to claim 8 wherein the step of comparing in			
2	hardware the rec	ceived	MAC address of a particular elementary substream comprises:			
3	(8	(a) mas	sking a plurality of bits of the received MAC address; and			
4	(1)	(b) iter	atively comparing each of the unmasked bits of the received MAC			
5	address against t	the cor	responding unmasked bits of each of the plurality of stored MAC			
6	addresses until a match is found.					
1			The method according to claim 8 wherein the received MAC			
2	address compris	ses 48 1	oits and each of the stored MAC addresses comprises 48 bits.			
1	1	11.	A system for receiving and processing a transport stream, the			
2	system comprisi	ing:				
3	(;	(a) a re	ceiver configured to derive multiple elementary substreams, each			
4	elementary substream including a received media access control (MAC) address; and					
5	(1	(b) a h	ardware comparison engine within the receiver, the hardware			
6	comparison eng	gine bei	ng configured to compare the received MAC address of a particular			
7	data stream agai	inst a p	plurality of stored MAC addresses.			
1	1	12.	The system according to claim 11, the system further comprising a			
2	•		(DMA) transfer engine within the receiver, wherein the receiver is			
3	_		lerive multiple data steams and associated program identifiers from			
4	the transport stream, each such data stream being associated with a plurality of the					
5	multiple elemen	ntary sı	ibstreams, and wherein the DMA transfer engine is configure to			
6	initiate DMA transfers of the multiple data streams and multiple elementary substreams					

the corresponding transfer locations in a host memory.

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1	13.	The system according to claim 12, the system further comprising			
2	an interface connected to the receiver configured to transfer the multiple data streams and				
3	multiple elementary substreams to an end user system.				
1	14.	The system according to claim 13 wherein the end user system			
2	comprises an audio-v	isual system and interface comprises an audio-visual interface.			
1	15.	The system according to claim 13 wherein the end user system			
2	comprises a networked computer system and the interface comprises a network interface.				
	_				
1	16.	The system according to claim 15 wherein the end user system			
2	further comprises a world wide web browser.				
	1.7				
1	17.	The system according to claim 2 wherein the hardware comparison			
2	engine is further configured to filter out unwanted elementary substreams associated with				
3	a particular data strea	m.			
1	18.	The system according to claim 11 wherein each of the stored MAC			
2	addresses is concatenated with an index and a disable bit.				
1	19.	The system according to claim 18 wherein the hardware			
2	comparison engine is configured to compare the received MAC address of a particular				
3	elementary substream against the plurality of stored MAC addresses by:				
4	(a) ma	asking a plurality of bits of the received MAC address; and			
5	(b) ite	eratively comparing each of the unmasked bits of the received MAC			
6	address against the corresponding unmasked bits of each of the plurality of stored MAC				
7	addresses until a match is found.				
1	20.	The system according to claim 18 wherein the received MAC			

address comprises 48 bits and each of the stored MAC addresses comprises 48 bits.